

NOTE: BOARD IS NOT THROUGH
 HOLE PLATED. THESE SHOULD
 BE MADE USING THICK WIRE
 EG 16 S.W.G AND SOLDERED
 TOP + BOTTOM.

Drwn JHP.

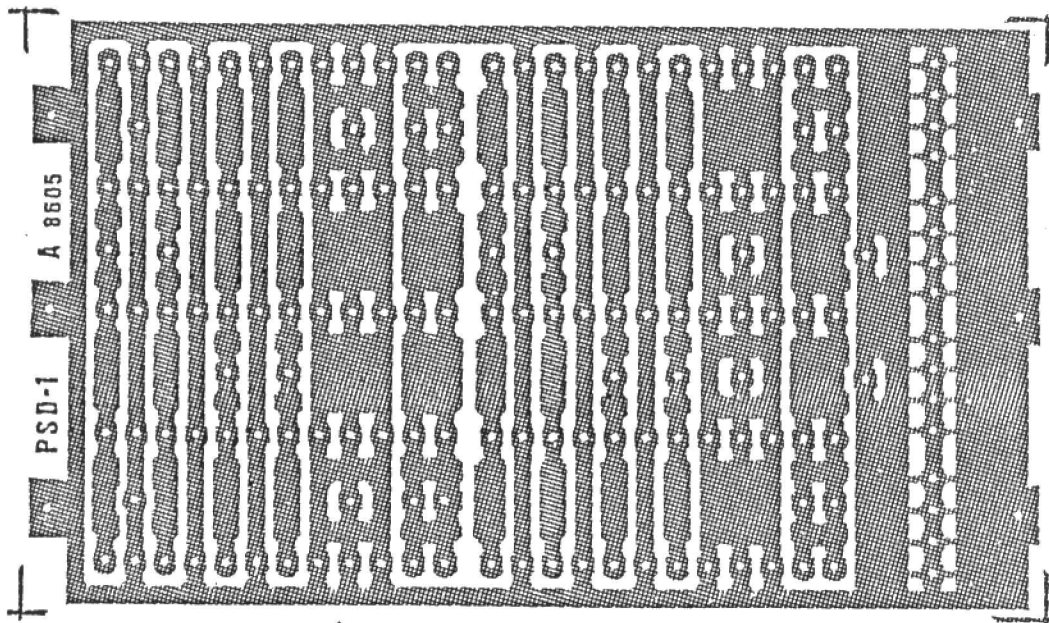
Date 26-8-86

Scale N.T.S

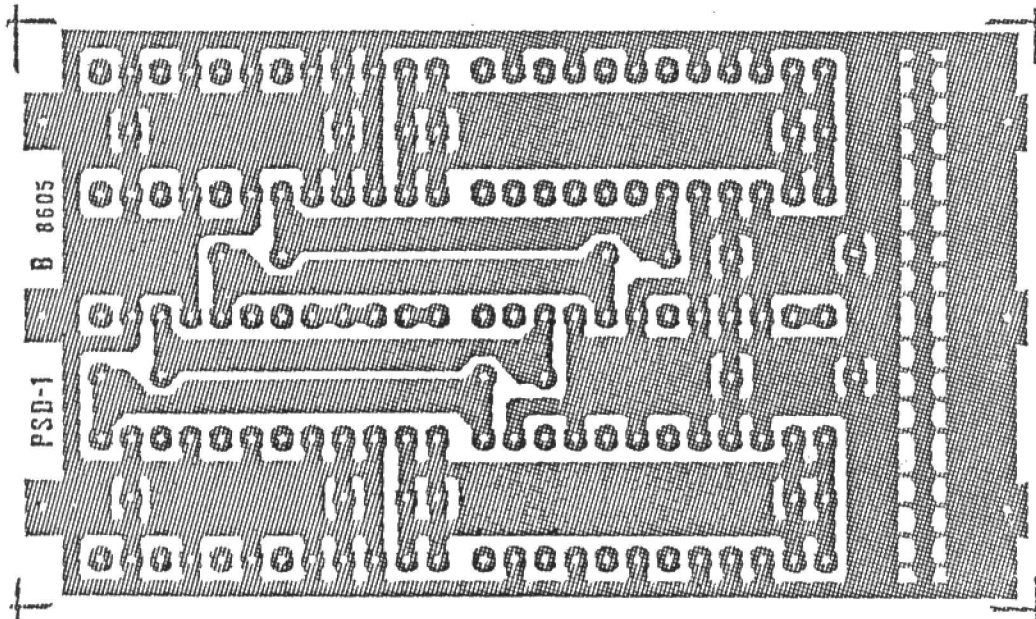
Greenbank Electronics

COMPONENT OVERLAY
 PSD-1 board.

28-1-87.



SOLDER SIDE



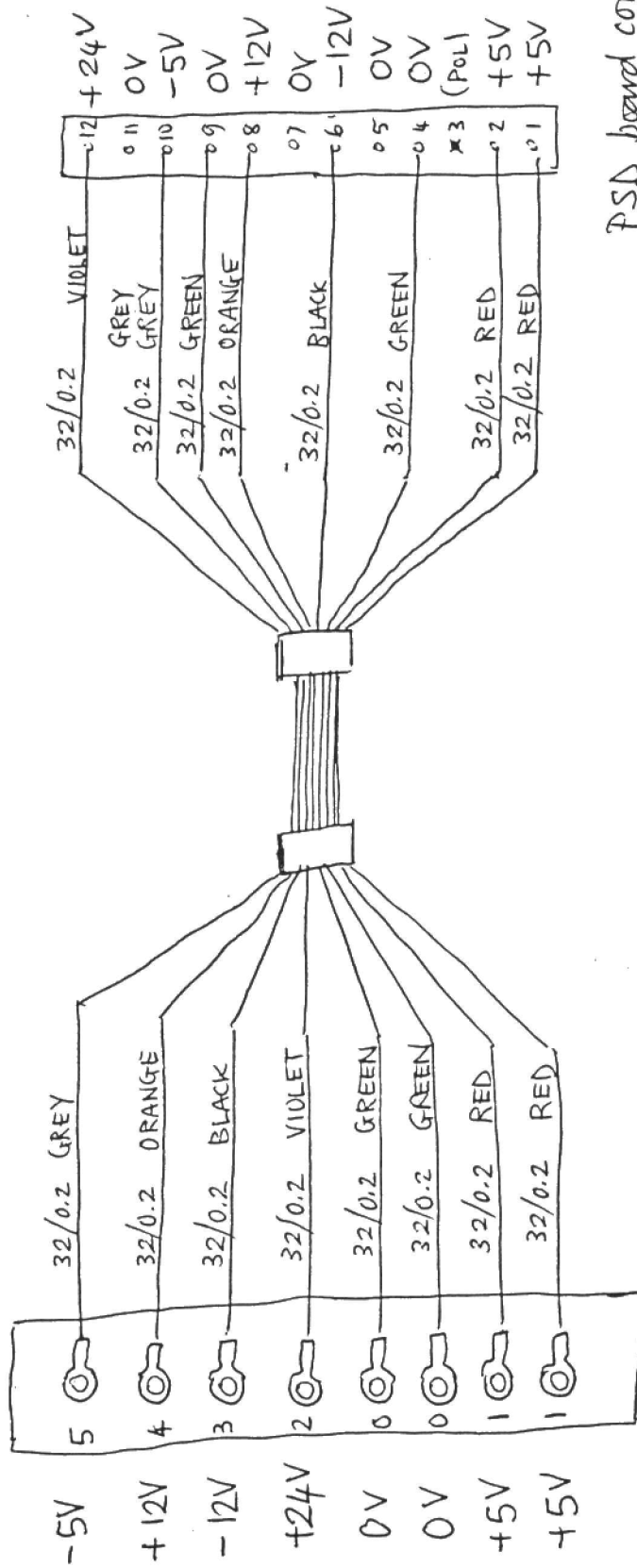
COMPONENT SIDE

Greenbank Electronics PSD-1 SIDE A, SIDE B FOR ARTWORKS		Drawn JHP
		Date 27-8-86
		Scale N.T.S

+24V	12.
0V	11.
-5V	10.
0V	9.
+12V	8.
0V	7.
-12V	6.
0V	5.
0V	4.
(P01)	3.
+5V	2.
+5V	1.

PSD BOARD CONNECTOR

	Drawn		Greenbank Electronics
	Date		
	Scale		



FARNELL N180

SWITCH MODE PSU

DC OUTPUT TERMINAL BLOCK

Notes colour green may be replaced by yellow/green trace

RVN 16-10-86

Drawn BMP

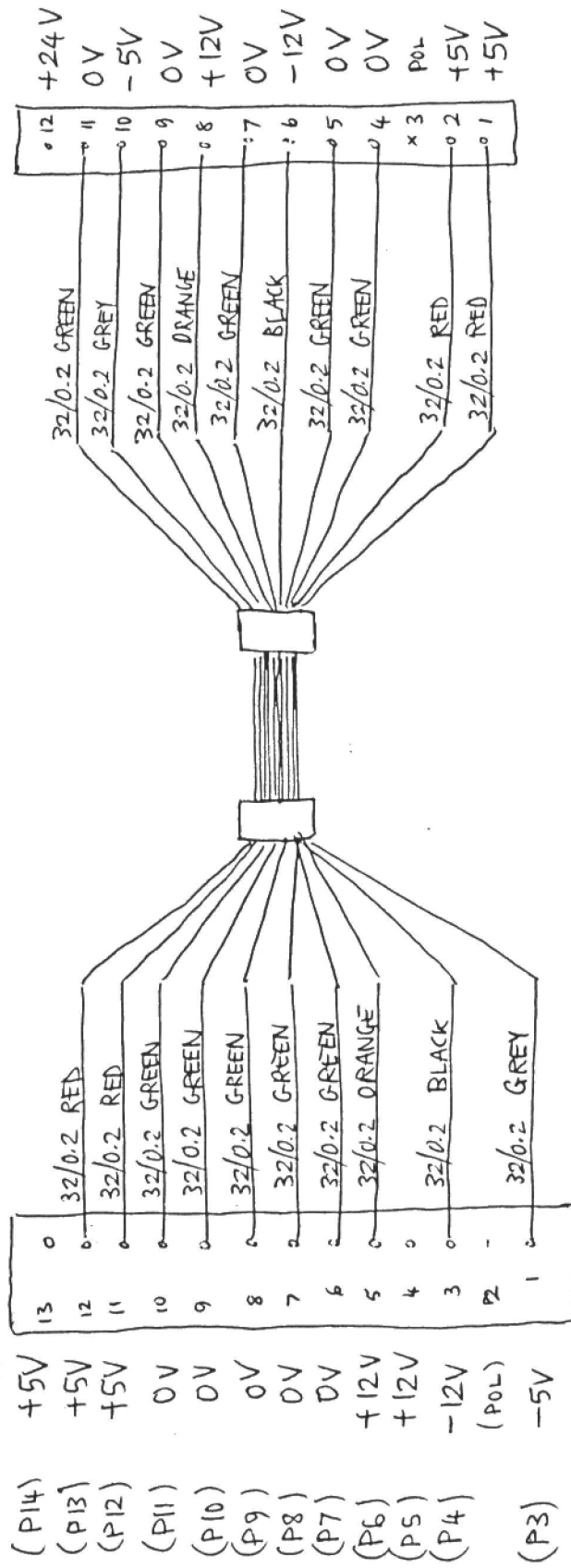
Date 8-5-86

Scale

Greenbank Electronics

FARNELL N180 DC CABLE DETAILS

(Astec's Pin Nos)
↓



PSD BOARD
CONNECTOR

ASTEAC AC9251
SWITCH MODE PSU
DC OUTPUT

THE 5 DC VOLTAGES AND 0V RETURNS
SHOULD BE IMPLEMENTED AS "TWISTED PAIRS"

Notes Colour green may be replaced by yellow/green trace.

RUN 16-10-86

Drawn DMP

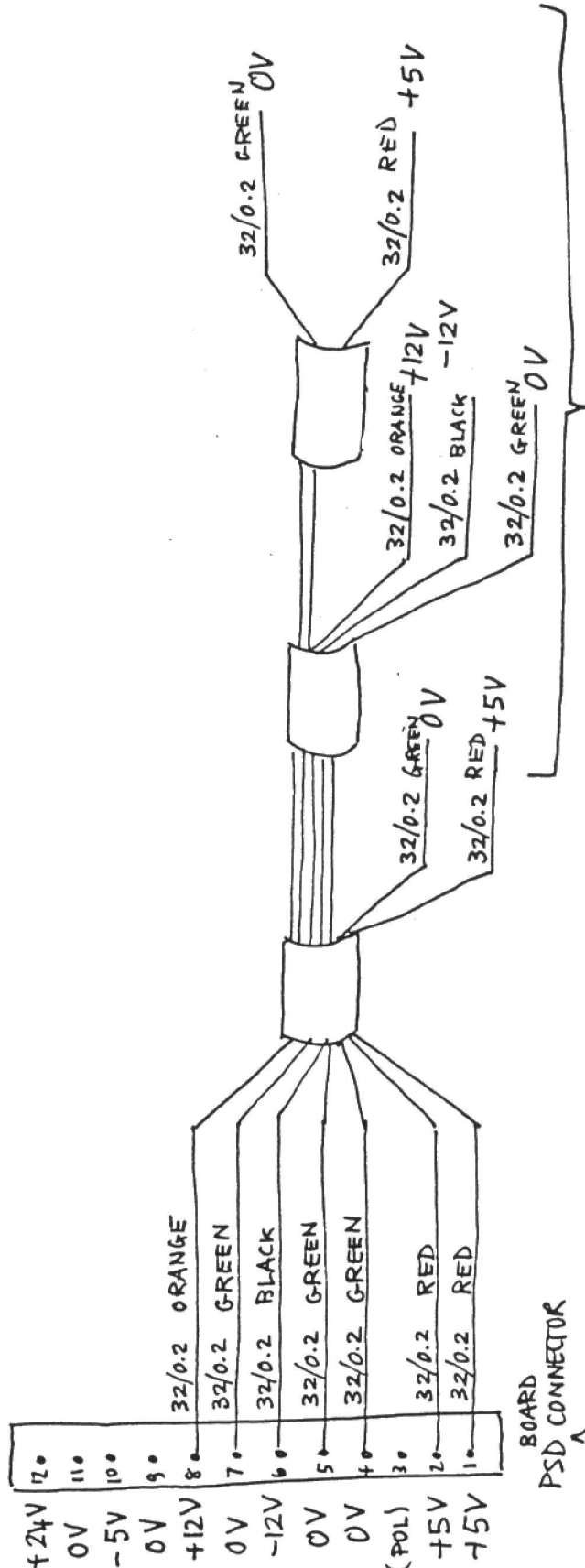
Date 8-5-86

Scale

Greenbank Electronics

ASTEAC 9251 DC CABLE DETAILS

(LDPSUPSI)



BOARD
PSD CONNECTOR

"ISBUS-1" CONNECTIONS
0V, +5V AT EACH END; +12V, -12V, 0V, AT CENTRE

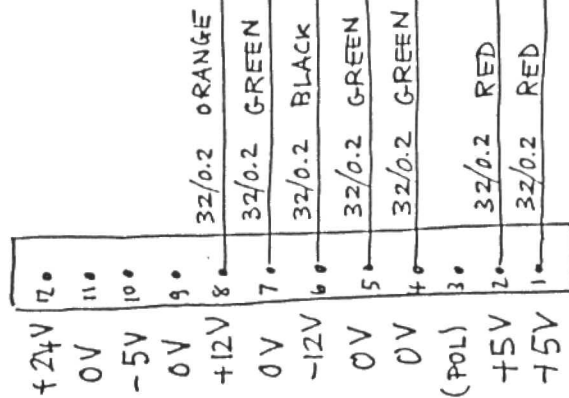
NOTE 1
"TWISTED PAIRS (TRIPLES)"
AS FOLLOWS:-

- 0V, +5V
- 0V, +5V
- 0V, +12V, -12V

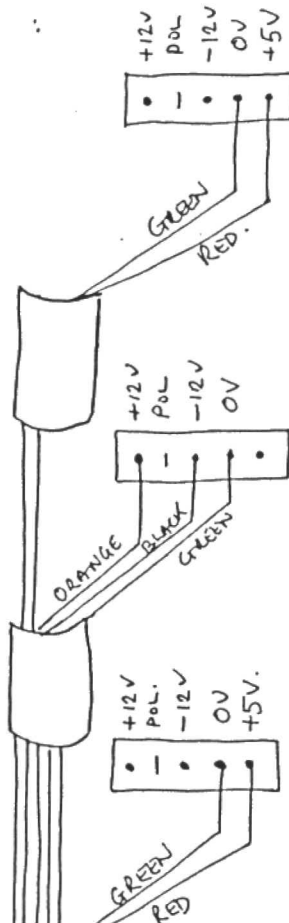
NOTE 2
GREEN WIRE MAY BE
REPLACED BY YELLOW/GREEN TRACE

NOTE 3
SIMILAR COLOURS CAN
BE CONNECTED IN ANY
ORDER - EG 3 GREENS
ARE INTERCHANGEABLE

R/VN 16-10-86	Drawn	DMP
	Date	8-5-86
	Scale	
Greenbank Electronics		
ISBUS-1 DC CABLE DETAILS		
LDISB1PS1		



BOARD
PSD CONNECTOR



"ISBUS-2" CONNECTIONS

0V, +5V AT EACH END; +12V, -12V, 0V, AT CENTRE

NOTE 1

"TWISTED PAIRS (TRIPLES)"

AS FOLLOWS:-

- 0V, +5V
- 0V, +5V
- 0V, +12V, -12V

NOTE 2

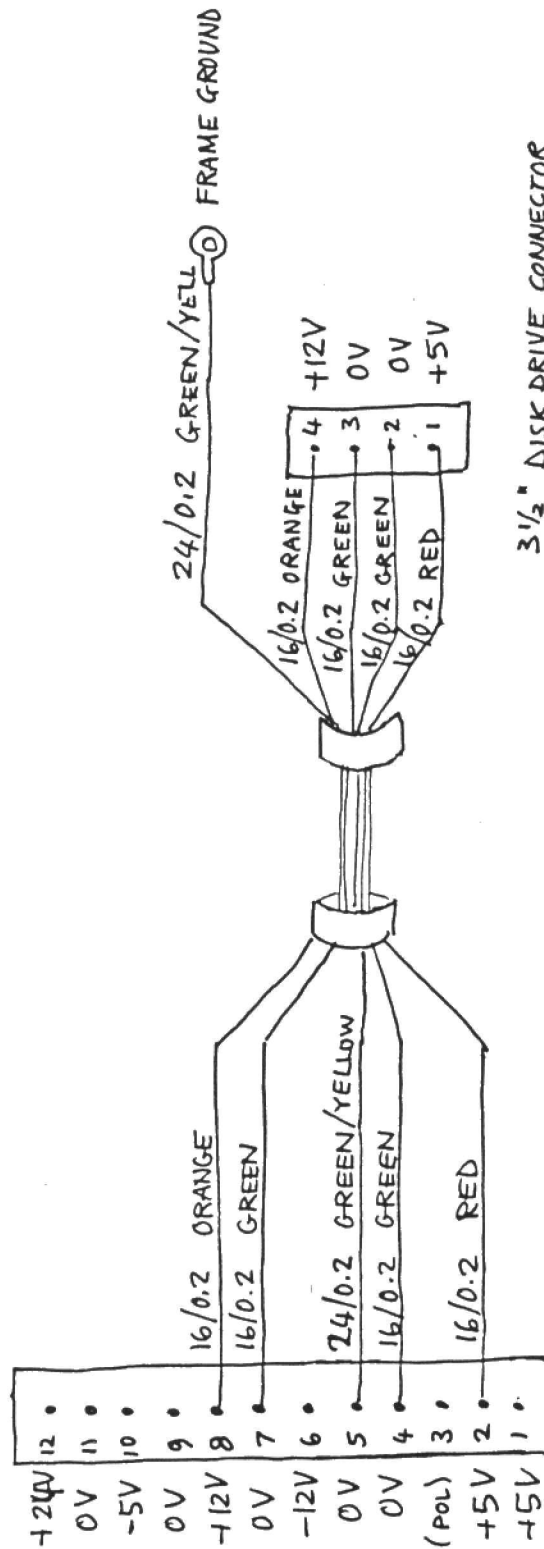
GREEN WIRE MAY BE REPLACED BY YELLOW/GREEN TRACE

NOTE 3

SIMILAR COLOURS CAN BE CONNECTED IN ANY ORDER - EG 3 GREENS ARE INTERCHANGABLE

Greenbank Electronics
ISBUS-2 DC CABLE DETAILS
LDISB2PS1

Drawn DMP/JHP
Date 13-10-88
Scale N.T.S



POWER CONNECTIONS (PIN NOS TO BE
AS SPECIFIED BY DRIVE MANUFACTURER;
IGNORE MARKINGS ON CABLE SHELL
IF DIFFERENT)

NOTE 1

"TWISTED PAIRS"

AS FOLLOWS

0V, +5V

0V, +12V

NOTE 2

GREEN WIRE

MAY BE REPLACED

BY YELLOW/GREEN; BUT

GREEN/YELLOW TRACE MUST

BE AS SPECIFIED

RVN 16-10-86

Drawn DMP

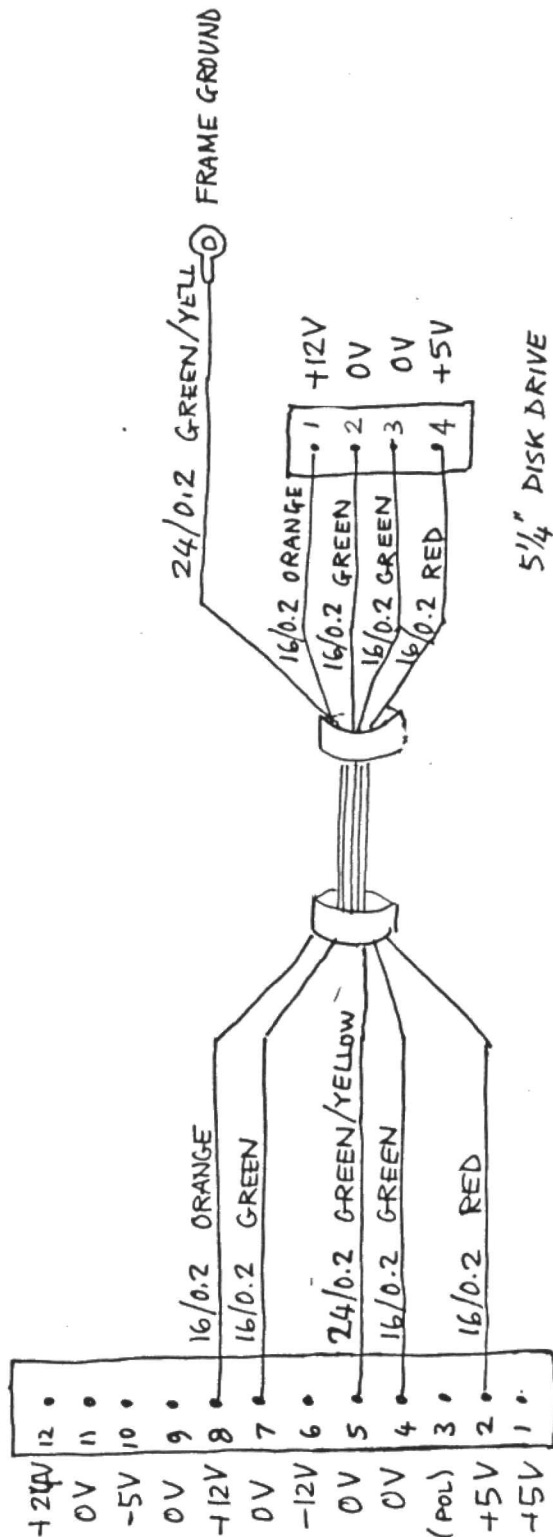
Date 8-5-86

Scale

Greenbank Electronics

3 1/2" DISK DRIVE CABLE DETAILS

LD FDS3



PSD BOARD CONNECTOR

5 1/4" DISK DRIVE
POWER CONNECTIONS

NOTE 1

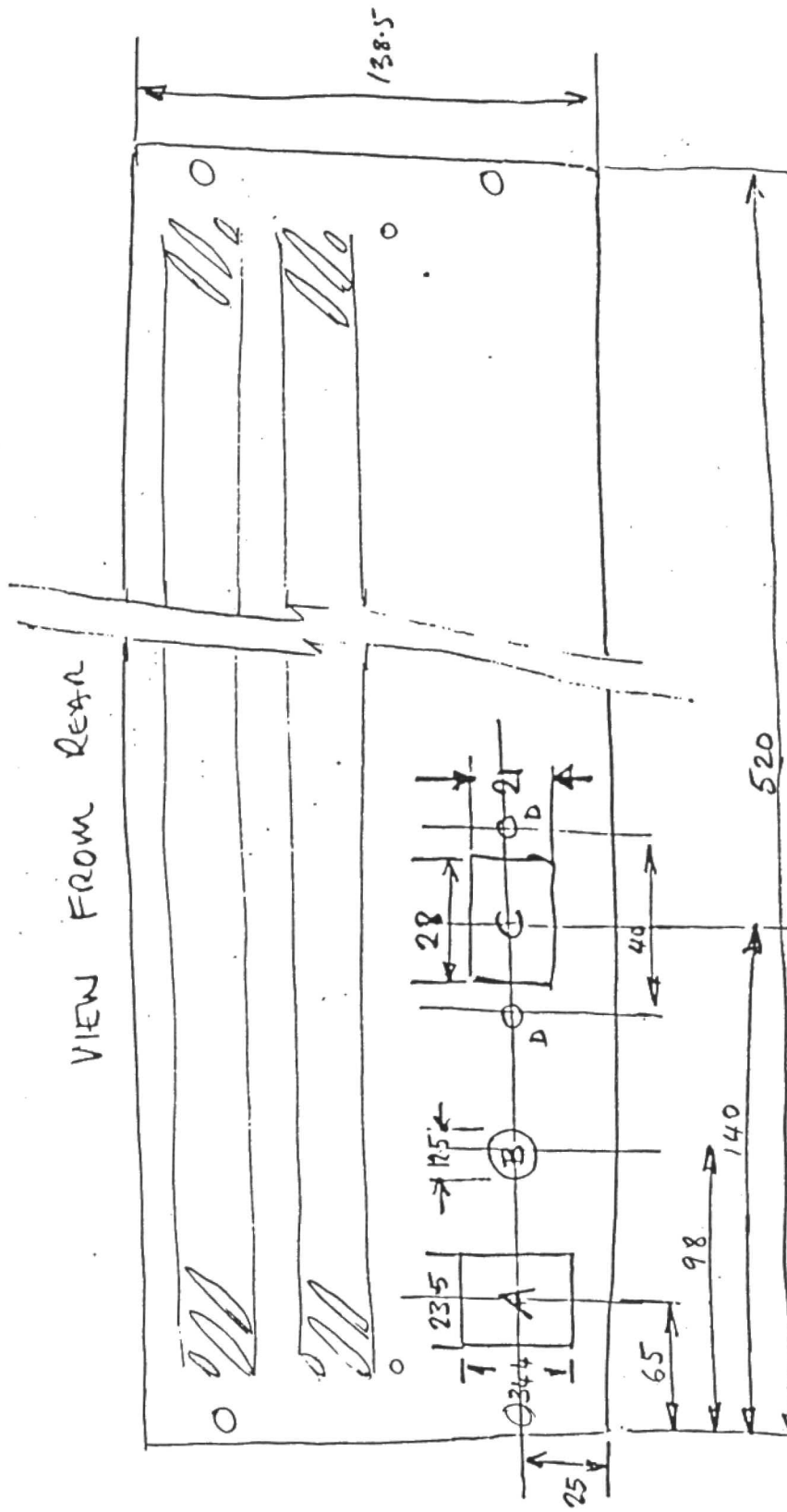
"TWISTED PAIRS"
AS FOLLOWS
0V, +5V
0V, +12V

NOTE 2

GREEN WIRE
MAY BE REPLACED
BY YELLOW/GREEN; BUT
GREEN/YELLOW TRACE MUST
BE AS SPECIFIED

RVN 16-10-86	Drawn	ΔMP
	Date	8-5-86
	Scale	
Greenbank Electronics		
5 1/4" DISK DRIVE CABLE DETAILS		

VIEW FROM REAR



A. hole to suit Switch used (Dims shown suit SWR4A)

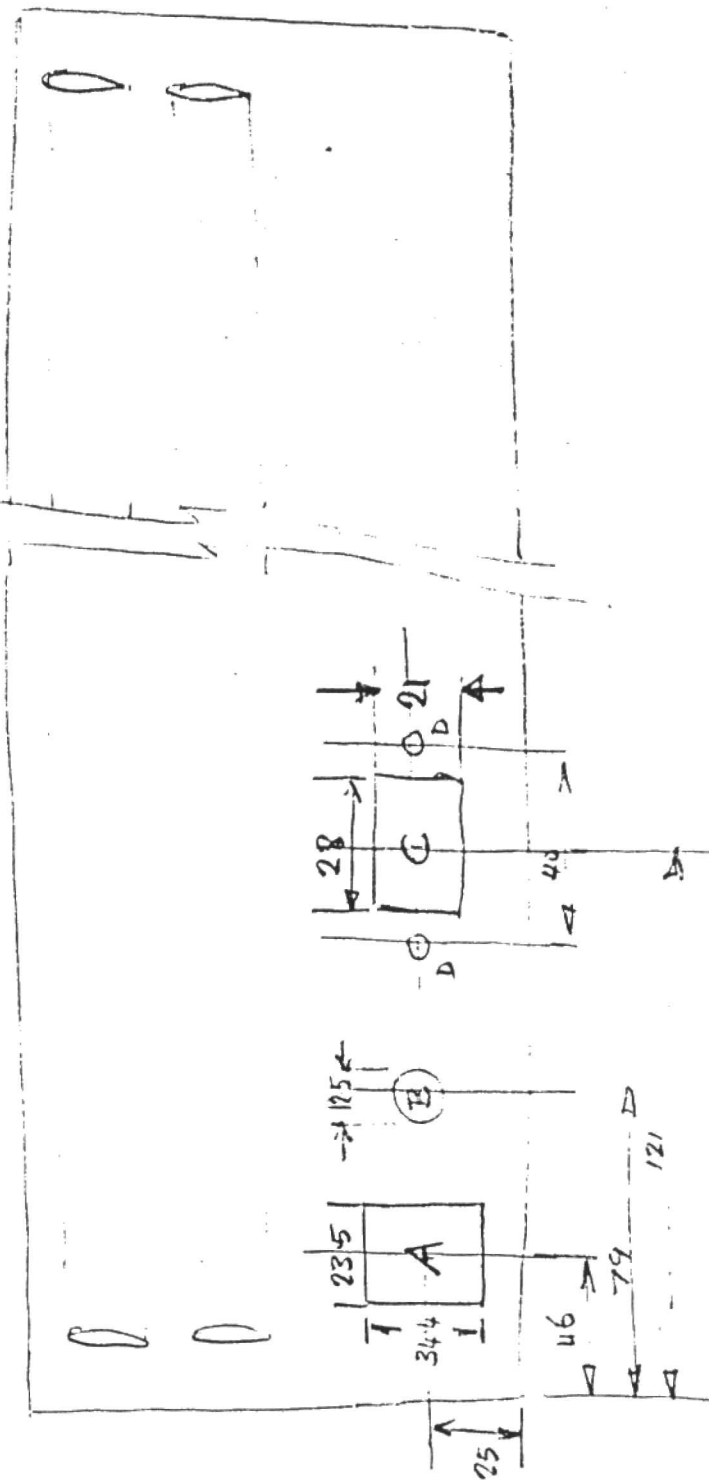
B. hole to suit fuse holder (Dims shown suit FHCH201)

C. hole to suit IEC MAINS Filter (Dims shown suit IEC FILT6A)

D. holes to suit IEC fixings 3.2 (1/8) dia.

Drawn: TLP	Greenbank Electronics
Date 3-12-88	DIPLOMAT Peter Howell
Scale N.T.S.	cutting details
DIMS IN MM.	

VIEW FROM REAR



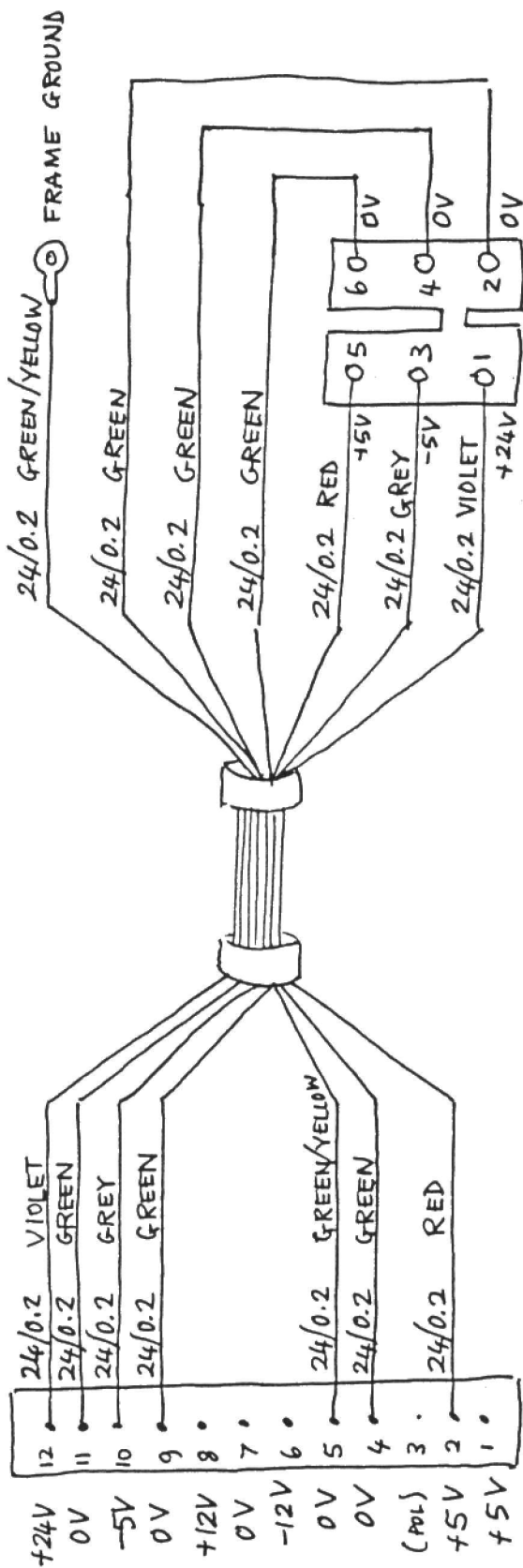
A. hole to suit Switch used (Dims shown suit SWR4A)

B. hole to suit fuse holder (Dims shown suit FHCH201)

C. hole to suit IEC MAINS filter (Dims shown suit IEC F1176A)

D. holes to suit IEC fixings 3.2 (1/8) dia.

Greenbank Electronics	
Drawn: JH	Ambassador Road Havel cutting details
Date 27-1-88	
Scale N.T.S.	
Dims in mm.	



PSD BOARD CONNECTOR

DISK DRIVE DC CONNECTOR
(PIN VIEW, LOOKING AT DRIVE)

NOTE 1

"TWISTED PAIRS"

AS FOLLOWS

0V, +5V

0V, -5V

0V, +24V

NOTE 2

GREEN WIRE MAY BE
REPLACED BY YELLOW/GREEN;
BUT GREEN/YELLOW TRACE
MUST REMAIN AS SPECIFIED

NOTE 3

NOT ALL 8" DRIVES REQUIRE -5V
SEE DRE, TANDON DIAG.

RUN 16-10-86

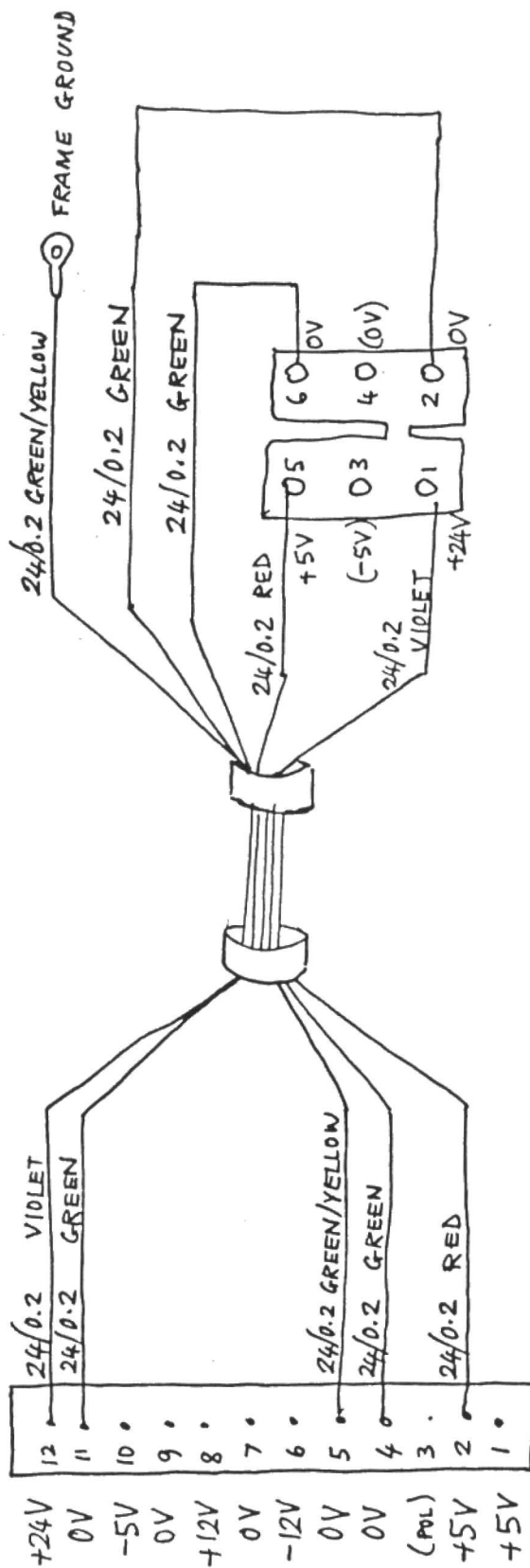
Drawn DMP

Date 8-5-86

Scale

Greenbank Electronics

8" CTRL-DATA DISK DRIVE CABLE
DETAILS (UNIVERSAL)



NOTE 1

"TWISTED PAIRS"
AS FOLLOWS
0V, +5V
0V, +24V

NOTE 2

GREEN WIRE MAY BE
REPLACED BY YELLOW/GREEN;
BUT GREEN/YELLOW TRACE
MUST REMAIN AS SPECIFIED

RVN 16-10-86

Drawn DMP

Date 8-5-86

Scale

Greenbank Electronics

8" DRE, ^{TAN}DISK DRIVE CABLE
DETAILS

Below we list the items we suggest you need to construct the FSD-1 Board and the items required to connect the board to the AC9251 PSU, ISEBUS-1 board, Case and System Earthing, AC power to the PSU and two connectors spare (eg 3.5" or 5.25" Disk Drives). There are of course other items which we recommend you use for the complete job, eg we recommend a full complement of the 12 way plugs so that future additions requiring power can be added without the need to remove the FSD-1 board to fit extra connectors, and the use of a mains transient filter, fuse and switch, we have listed these on the main FSD-1 price list.

Description	Quantity	Order	Price	Price
-----	in Kit	Code	Each	-----
Mains Lead Kit AC9251	1 off	LDACFSK1	1.38	1.38
ISEBUS dc Power Lead	1 off	LDISB1FS1	1.09	1.09
DC Power Lead AC9251	1 off	LDPSU1FS1	1.95	1.95
FSD board Earth Lead #1	1 off	LD0VFS1	0.98	0.98
FSD board Earth Lead #2	1 off	LD0VFS2	0.48	0.48
FSD board Earth Lead #3	1 off	LD0VFS3	1.23	1.23
FSD board Earth Lead #4	1 off	LD0VFS4	1.49	1.49
4 way Str/Fr Lock Polarised	4 off	FL156S4P	0.32	1.28
12 way Str/Fr Lock Polarised	5 off	FL156S12P	0.89	4.45
M3 Fixings etc to Rack	1 off	SYCFSD1	2.06	2.06
750mm x 16swg	1 piece			
Tinned Copper Wire		TCW16750	0.30	0.30
Total of the items listed so far:			PFSD1K1	16.69

Options (see also list ref. FSD-1/P- for full list)

upto 5 more 12 way Straight Friction Lock Polarised Plugs (order code FL156S12P @ 0.89 each) may be fitted to fully populate the board.

Add 50p handling charge to each order and 15% VAT

Greenbank Electronics
460 New Chester Road
Rock Ferry, Birkenhead
Merseyside. L42 3AE

Telephone:-051-645 3391

Access and Visa Welcome

Parts list for PSD-1 Power Distribution Board.
(Prices exclude VAT)

Kit 2

PSD-1K2/P2
February 1989

Below we list the items we suggest you need to construct the PSD-1 Board and the items required to connect the board to the PS9251 PSU, ISBUS-2 board, System Earthing, AC power to the PSU and two connectors spare (eg 3.5" or 5.25" Disk Drives). There are of course other items which we recommend you use for the complete job, eg we recommend a full complement of the 12 way plugs so that future additions requiring power can be added without the need to remove the PSD-1 board to fit extra connectors, and the use of a mains transient filter, fuse and switch, we have listed these on the main PSD-1 price list.

Description	Quantity in Kit	Order Code	Price Each	Price
Mains Lead Kit PS9251	1 off	LDACPSK1	1.38	1.38
ISBUS-2 dc Power Lead	1 off	LDISB2PS1	2.32	2.32
DC Power Lead PS9251	1 off	LDPSU1PS1	1.95	1.95
PSD board Earth Lead #1	1 off	LDØVPS1	Ø.98	Ø.98
PSD board Earth Lead #2	1 off	LDØVPS2	Ø.48	Ø.48
PSD board Earth Lead #3	1 off	LDØVPS3	1.23	1.23
4 way Str/Fr Lock Polarised	4 off	PL156S4P	Ø.32	1.28
12 way Str/Fr Lock Polarised	5 off	PL156S12P	Ø.89	4.45
M3 x 25mm Studded Spacers	6 off	SPSM3-25	Ø.21	1.26
M3 x 6mm Hex Headed Bolts,	6 off	M3HEX-6	Ø.Ø4	Ø.24
M3 Full Nuts	6 off	M3NUT	Ø.Ø2	Ø.12
M3 Shakeproof Washers	6 off	M3SWR	Ø.Ø1	Ø.Ø6
M3 Plain Washers	6 off	M3PWR	Ø.Ø1	Ø.Ø6
75Ømm x 16swg Tinned Copper Wire	1 piece	TCW1675Ø	Ø.3Ø	Ø.3Ø
Total of the items listed so far:			PPSD1K2	<u>16.11</u>

Options (see also list ref. PSD-1/P- for full list)

upto 5 more 12 way Straight Friction Lock Polarised Plugs (order code PL156S12P @ Ø.89 each) may be fitted to fully populate the board.

The case earthing lead is not included in the above list as it is supplied with the case when purchased from Greenbank.

Add 5Øp handling charge to each order and 15% VAT

Greenbank Electronics
46Ø New Chester Road
Rock Ferry, Birkenhead
Merseyside. L42 3AE

Telephone:-Ø51-645 3391

Access and Visa Welcome (no surcharges).

Parts list for PSD-1 Power Distribution Board. PSD-1/P3
(Prices exclude VAT) June 1982

Description	Order Code	Price Each
PSD-1 Bare Board	BPSD1	5.75
PSD-1 Instruction Leaflet (0% VAT)	MPSD1	0.50
Standard 'Made Up' Leads		
Mains Lead Kit AC9251	LDACPSK1	1.38
ISBUS4dc Power Lead	LDISB1PS1	1.09
DC Power Lead AC9251	LDPSU1PS1	1.95
PSD board to 3.5" Drive	LDFDPS3	2.50
PSD board to SRC-1 Board (1.0m long)	LDSRC1PS2	1.45
PSD board Earth Lead #1	LD0VPS1	0.98
PSD board Earth Lead #2	LD0VPS2	0.48
PSD board Earth Lead #3	LD0VPS3	1.23
PSD board Earth Lead #4	LD0VPS4	1.49
PSD Earth Lead Kit Leads (#1,2,3,4 above)	LD0VPSK1	4.18
PSD-2 Power Lead	LD1561PS1	4.50
0.156" pcb Plug Straight with Friction Lock and Polarised		2.32

4 way Str/Fr Lock Polarised	PL156S4P	0.32
5 way Str/Fr Lock Polarised	PL156SSP	0.40
12 way Str/Fr Lock Polarised	PL156S12P	0.89

0.156" Shell for Discrete Wiring (Polarising Key available separately see below)		
Shell 3 way (AC9251 PSU AC Power)	SH1563	0.29
Shell 4 way (PSD-1 Earths)	SH1564	0.19
Shell 5 way (SRC-1 Power connector)	SH1565	0.20
Shell 12 way (PSD-1 DC Power)	SH15612	0.31
Shell 13 way (AC9251 PSU DC Power)	SH15613	0.61

Sundry Items		
0.156" Polarising Key #1	POLK1561	0.07
0.156" Crimp Small (suit wire 7/0.2-16/0.2)	CRMP156S	0.03
0.156" Crimp Large (suit wire 24/0.2-32/0.2)	CRMP156L	0.03
M3 x 25mm Studded Spacers	SFSPM3-25	0.21
Pack 10 M3 x 6mm Hex Headed Bolts, Nuts and Washers	HEX1	0.64
6 amp Mains Filter with IEC Connector (plug)	IECFILT6A	6.00
20mm Panel Mounting Fuse Holder	FCH201	0.98
20mm 1 amp Time Lag Fuse	F20T1A	0.20
DPST 4 amp Rocker Switch	SWR4A	2.28

list continues on next page

Parts list for PSD-1 Power Distribution Board. PSD-1/P3
(Prices exclude VAT) June 1982

continued from previous page		
Insulating Boot for Filter	IECIR1	0.15
Insulating Boot for Fuse Holder	FHIB1	0.15
IEC cable mounting socket (straight cable entry)	IECSS1	1.56
IEC cable mounting socket (right angle cable entry)	IEC90S1	1.56

The wire listed below suitable for you to make up your own leads.		
7/0.2xxx	0.05/m	RED, GREEN, BLACK, ORANGE, VIOLET, GREY, Green Stripped Yellow (GSY)
16/0.2xxx	0.10/m	RED, GREEN, BLACK, ORANGE, VIOLET, GREY, Green Stripped Yellow (GSY)
24/0.2xxx	0.12/m	Green Stripped Yellow (GSY)
32/0.2xxx	0.14/m	BROWN, BLUE, RED, GREEN, BLACK, ORANGE, VIOLET, GREY,

To complete the order code replace 'xxx' with the three letter code for the colour indicated by the underlined capital letters eg for red the code is RED, for green the code is GRN etc

Add 50p handling charge to each order and 15% VAT

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